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TRANSACTIONS, PROCEEDINGS, AND ABSTRACTS.

1910.

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- Phenyl α -aminopropyl ketone**, hydrochloride, picrate and platinichloride of (HILDESHEIMER), A., i, 891.
- ϵ -Phenylamylamine**, and its derivatives (V. BRAUN), A., i, 844.
- 1-Phenyl-2-isoamylurazole** (BRUNEL and ACREE), A., i, 521.
- Phenyl-*p*-anisidine**, *tribromo*- (WIELAND and WECKER), A., i, 243.
- δ -Phenyl- α -anisyl- Δ^{α} -butene- γ^{δ} -dianil** (BORSCHKE and TITSINGH), A., i, 65.
- α -Phenyl- δ -anisyl- Δ^{α} -butene- γ^{δ} -dianil** (BORSCHKE and TITSINGH), A., i, 66.
- Phenyl-*p*-anisylethylene**, *dibromo*-derivative of (BUSIGNIES), A., i, 668.
- 2-Phenyl-6-anisylpyridine** (SCHOLTZ and MEYER), A., i, 562.
- δ -Phenyl- β -*o*-anisylthiosemicarbazide**, and its *m*-nitrobenzylidene derivative (BUSCH and REINHARDT), A., i, 77.
- Phenyl-*p*-anisyl-3:4-*gem*-triazoloisooxazole** (WIELAND, GMELIN, and ROSEEU), A., i, 785.
- Phenylarsenious oxide**, *p*-hydroxy- (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 148.
- p*-iodo- (MAMELI and PATTI), A., i, 531.
- Phenylarsinic oxide**, *p*-amino-, condensation product of, with β -naphthaquinonesulphonic acid (EHRlich, BERTHEIM, and SCHMITZ), A., i, 452.
- Phenylarsinic acid** and its derivatives, reduction products of (EHRlich, BERTHEIM, and SCHMITZ), A., i, 451.
- Phenylarsinic acid**, *o*-amino- (*o*-arsanilic acid) 4-chloro- (BENDA), A., i, 148.
- p*-amino- (*arsanilic acid*) carbamide and thiocarbamide derivatives of (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 148.
- mono*- and *dibromo*-, *dichloro*-, *mono*- and *di*-iodo- (BERTHEIM), A., i, 346.
- Phenylarsinoacetic acid**, *p*-amino- (EHRlich, BERTHEIM, and SCHMITZ), A., i, 452.
- Phenylasparagine**, 2:4-dinitro- (ABDERHALDEN and BLUMBERG), A., i, 371.
- Phenylbenziminazole-*o*-carboxylic acid**. See Benziminazole-2-benzoic acid.
- Phenyl- ψ -azimobenzene**. See 2:1:3-Benztriazole.
- Phenyl-2-aziminonaphthalene-5:7-disulphonic acid**, *p*-nitro-, and *p*-amino- (GESELLSCHAFT FÜR CHEMISCHE INDUSTRIE IN BASEL), A., i, 207.
- Phenyl-2-azimino-5-naphthol-7-sulphonic acid**, *p*-amino-, preparation of (GESELLSCHAFT FÜR CHEMISCHE INDUSTRIE IN BASEL), A., i, 206.
- 3:4-Phenylazimino-5-phenylisooxazole**. See Diphenyl-3:4-*gem*-triazole-isooxazole.
- Phenylazoidime**, *o*- and *m*-bromo- (DIMROTH and PRISTER), A., i, 904.
- 1-Phenyl-1:2:3-benzotriazole-5-sulphonic acid** (SCHWALBE and WOLFF), P., 340.
- 2-Phenyl-1:3-benzoxazine-4-one** (TITHERLEY), T., 200; P., 9.
- 6-bromo- (HUGHES and TITHERLEY), P., 344.
- 6-chloro- (TITHERLEY and HUGHES), T., 1376; P., 175.
- 6-Phenyl-1:2:3:7:9-benzpentazole**, 4-hydroxy- (BÜLOW), A., i, 81.
- 1-Phenyl-benzsulphontriazine** (ULLMANN and GROSS), A., i, 886.
- 2-Phenyl-2:1:3-benztriazole**, 5-amino-, 6-chloro-5-nitro-, 4:5:7-trichloro-6-hydroxy-, and 4:5-dichloro-6:7-dihydroxy- (ZINCKE and SCHARFF), A., i, 141.
- Phenylbenzylacetone**, 4:4'-dichloro- (STRAUS, KRIER, and LUTZ), A., i, 567.
- β -Phenyl- α -benzylglutaconic acid** and its barium and silver salts (FEIST and POMME), A., i, 39.

- β -Phenyl- γ -benzylidenebutiric acid**, β -hydroxy-, methyl ester and its dibromide, and γ -bromo- β -hydroxy-, methyl ester (KOHLE and HERITAGE), A., i, 484.
- β -Phenyl- α -benzylideneglutaconic acid** (FEIST and POMME), A., i, 39.
- 1-Phenyl-4-benzylidene-3-methyl-5-pyrazolone-2'-carboxylic acid** (MICHAELIS, KRUG, LEO, and ZIESEL), A., i, 514.
- 1-Phenyl-4-benzylidene-3-methyl-5-pyrazolone-3'- and 4'-carboxylic acid** (MICHAELIS and HORN), A., i, 517.
- β -Phenyl- γ -benzylidenevaleric acid**, β -hydroxy-, methyl ester (KOHLE and HERITAGE), A., i, 484.
- Phenyl benzyl ketone**, semicarbazone of (SENDERENS), A., i, 489.
- 2-Phenylbenzyl-6-methyl-*n*-propyl-piperidinium iodide** (SCHOLTZ), A., i, 634.
- β -Phenyl- β -benzylpropionic acid**, and its silver salt (RUHEMANN), T., 460.
- β -Phenyl- α -benzyl- α -propylpropiophenone** (HALLER and BAUER), A., i, 490.
- Phenylbenzyl sulphoxide** (PUMMERER), A., i, 468.
- Phenylbiuret**, *p*-bromo- (BÖESEKEN and COUVERT), A., i, 645.
- β -Phenyl- γ -bromobenzylidenebutiric acid**, β -hydroxy-, methyl ester (KOHLE and HERITAGE), A., i, 484.
- 5-Phenyl-1-*p*-bromophenylpyrazoline** (AUWERS and VOSS), A., i, 70.
- 5-Phenyl- β -*m*-bromophenylthiosemicarbazide** (BUSCH and REINHARDT), A., i, 76.
- Phenyl-*p*-bromoquinoxanthanol bromide** hydrobromide (GOMBERG and CONE), A., i, 58.
- Phenyl-*p*-bromoxanthanol** and its bromide (GOMBERG and CONE), A., i, 58.
- α -Phenylisobutane**, *l*- α β -*di*hydroxy- (MCKENZIE and WREN), T., 481.
- α -Phenylbutan- β -one**, semicarbazone of (SENDERENS), A., i, 489.
- Phenylbutylamine**, *trinitro*- (FRANCHIMONT), A., i, 616.
- 5-Phenylbutylamine**, and its derivatives (V. BRAUN), A., i, 844.
- Phenylbutyl cyclohexyl ketone** (KOHLE and BURNLEY), A., i, 392.
- Phenylbutylnitrosamine**, *trinitro*- (FRANCHIMONT), A., i, 616.
- 1-Phenyl-2 and 4-*n*, and isobutylurazole**, and their silver salts (BRUNEL and ACREE), A., i, 521.
- γ -Phenylbutyric acid**, preparation of (RUPE and PROSKE), A., i, 367.
- γ -Phenylbutyronitrile** (V. BRAUN), A., i, 844.
- Phenylcamphoramic acid**, *p*-hydroxy-, isomeric forms of (PIUTTI, LEONE, and D'EMILIO), A., i, 675.
- Phenyl- α -camphoramic acid**, 3-amino-, and its hydrochloride and acetyl derivative, 4-hydroxy-, and 3-nitro- (WOOTTON), T., 413.
- Phenylcamphorimide**, *p*-hydroxy- (PIUTTI, LEONE, and D'EMILIO), A., i, 675.
- Phenylcarbamie acid**, 5-hydroxy-m-xylyl ester of (CARLINFANTI), A., i, 733.
- chloro- and bromo- substituted propyl and isopropyl esters of (JOHNSON and LANGLEY), A., i, 885.
- Phenylcarbamide**, action of chlorine on, and 2:4:6-trichloro- (CHATTAWAY and CHANEY), T., 292 ; P., 22.
- Phenylcarbamylylfurylpyrazolone** (TORY and ZANETTI), A., i, 892.
- 9-Phenylcarbazole** (CASSELLA & Co.), A., i, 775.
- Phenylcarbithionic acid**. See Benzoic acid, *dithio*-.
- o*-hydroxy-. See Salicylic acid, *dithio*-.
- Phenylchlorocarbamide**, *p*-chloro-, 2:4-dichloro-, and 2:4:6-trichloro- (CHATTAWAY and CHANEY), T., 294.
- Phenyl*di*chlorocarbamide**, *p*-chloro-, 2:4-dichloro-, and 2:4:6 trichloro- (CHATTAWAY and CHANEY), T., 295.
- Phenyl-*s*-dichlorocarbamide** (CHATTAWAY and CHANEY), T., 297.
- Phenyltrichlorocarbamide**, *p*-chloro-, and 2:4:6-trichloro- (CHATTAWAY and CHANEY), T., 295.
- Phenyl-1:3-dichloro-4-iodophenylidonium**, 1:3-dichloro-, chloride and other salts (WILLGERODT and BÖLLERT), A., i, 828.
- 3-Phenyl-1-*o*-chloro-*p*-nitrophenyl-5-methyl-1:2:4-triazole** (PONZIO), A., i, 444.
- Phenyl-1:3-dichlorophenylidonium**, iodide and other salts (WILLGERODT and BÖLLERT), A., i, 828.
- Phenyl-*s*-trichlorophenylidonium**, chloride and iodide (WILLGERODT and WILCKE), A., i, 828.
- 5-Phenyl- β -*m*-chlorophenylthiosemicarbazide** (BUSCH and REINHARDT), A., i, 76.
- Phenyl-*p*-chloroquinoxanthanol chloride** hydrochloride (GOMBERG and CONE), A., i, 58.
- Phenyl-*p*-chlorostyrylchlorobromomethane**, *p*-chloro- (STRAUS, ACKERMANN, and LUTZ), A., i, 120.

- Phenyl-*p*-chloroxanthanol**, and its chloride (GOMBERG and CONE), A., i, 57.
- Phenyleinchotoxile**, chloro-, and its picrate and platinichloride (COMAN-
DUCCI), A., i, 583.
- Phenyleinchotoxol**, salts and derivatives of (COMANDUCCI), A., i, 582.
- β -Phenyl- γ -cinnamylidenebutyric acid**, β -hydroxy-, methyl ester (KÖHLER and HERITAGE), A., i, 485.
- Phenylcitraconamic acid**, *p*-hydroxy- (PIUTTI, PAGNIELLO, and MARCIANO), A., i, 672.
- Phenylcitraconimide**, *p*-hydroxy- (PIUTTI, PAGNIELLO, and MARCIANO), A., i, 672.
- N*-Phenyl- β -cyclocitraloxime** (ALES-
SANDRI), A., i, 753.
- 1-Phenylcitronellol** (AUSTERWEIL and COCHIN), A., i, 572.
- Phenyl- ψ -cumyloxamide** (SUIDA), A., i, 665.
- Phenyleyanocarbamide**, *p*-bromo-, and its copper and potassium salts, and its silver-ammonia derivative (BÖESE-
KEN and COUVERT), A., i, 644.
- Phenyl-di-*p*-anisylcarbinol** chloride hydrochloride (GOMBERG and CONE), A., i, 58.
- Phenyl-diazotriazole hydrate** (MANCHOT), A., i, 442.
- Phenyl dibenzoyldiaminotolyl sulphide**, *trinitro*- (MITSUGI, BEYSCHLAG, and MÖHLAU), A., i, 337.
- α -Phenyl- $\beta\beta$ -di-*p*-ethylphenylpropionic acid**, and its ethyl ester (BISTRZYCKI and MAURON), A., i, 845.
- β -Phenyl- $\alpha\alpha$ -diethylpropionophenone** (HALLER and BAUER), A., i, 490.
- β -Phenyl- $\alpha\alpha$ -diethylpropionyl chloride** (HALLER and BAUER), A., i, 490.
- Phenyl diguasiacylmethane** (MANCHOT), A., i, 314.
- Phenyl dicyclohexylcarbinol** (GODCHOT), A., i, 105.
- Phenyl dicyclohexylmethane**, nitro-derivatives of (GODCHOT), A., i, 104.
- 2-Phenyl dihydro-1:3-benzoxazine-4-one**, 6-bromo- (HUGHES and TITHERLEY), P., 344.
- 6-chloro- (TITHERLEY and HUGHES), T., 1374; P., 175.
- 2-Phenyl dihydroisindole**, methiodide of (SCHOLTZ and WOLFRUM), A., i, 772.
- 7-Phenyl dihydro- $\alpha\beta$ -phenonaphthacridine**, 10-hydroxy-, and its acetyl derivative (POPE and HOWARD), T., 976.
- 3-Phenyl dihydropyrazoquinazalone**, 6-amino-, and its benzylidene derivative, 4:6-dichloro-, and 6-oximino- (MICHAELIS and LEO), A., i, 515.
- Phenyl-3:4-dihydro-1:3-quinazalone**, 2-*o*-amino-, and its acetyl derivative (MOHR and KÖHLER), A., i, 116.
- 3-Phenyl-5-*p*-dimethylaminostyrylcyclohexan-1-one-2-carboxylic acid**, ethyl ester (BORSCHÉ), A., i, 684.
- 3-Phenyl-5-*p*-dimethylaminostyryl- Δ^5 -cyclohexen-1-one-2-carboxylic acid**, benzoyl derivative of its ethyl ester (BORSCHÉ), A., i, 684.
- 4-Phenyl-2:6-dimethyl-1:3:7:9-benzotetrazole** (BÜLOW and HAAS), A., i, 203.
- 1-Phenyl-2:4-dimethyl-3-bromomethyl-5-pyrazolone**, *p*-nitro- (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 78.
- γ -Phenyl- $\beta\beta$ -dimethylbutan- γ -ol** (LUCAS), A., i, 378.
- 1-Phenyl-2:3-dimethyl-4-ethyl-5-pyrazolone**, *p*-nitro- (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 340.
- Phenyl-1:3-dimethylglyoxal-4:5-glycol**, 4:5-dibromo- (BILTZ and BEHRENS), A., i, 589.
- 2-Phenyl-1:1-dimethylcyclohexan-3:5-dione** (BORSCHÉ), A., i, 36.
- Phenyl-1:3-dimethylhydantoin**, 5:5-dibromo- (BILTZ and BEHRENS), A., i, 589.
- 1-Phenyl-2:4-dimethyl-3-hydroxymethyl-5-pyrazolone**, *p*-amino-, and *p*-nitro-, and its acetate (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 78.
- 1-Phenyl-2:4-dimethyl-3-hydroxymethylpyrazolonedio-*o*-acetic acid**, *p*-amino- (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 340.
- β -Phenyl- $\beta\beta$ -dimethylpentane** (SCHREINER), A., i, 661.
- β -Phenyl- $\alpha\alpha$ -dimethylpropionyl chloride** (HALLER and BAUER), A., i, 490.
- 1-Phenyl-2:3-dimethyl-5-pyrazolones**, soluble compounds from (RIEDEL), A., i, 433.
- Phenyl dinaphthaquinoxanthanol** chloride hydrochloride (GOMBERG and CONE), A., i, 57.
- Phenyl dinaphthaxanthanol** and its salts (GOMBERG and CONE), A., i, 57.
- Phenyl dioxindole**, and *p*-bromo- (KÖHN), A., i, 697.
- Phenyl dithiocarbamic acid**, methyl, ethyl and propyl esters (ROSCHDESTVENSKY), A., i, 107.
- β -Phenyl- $\alpha\alpha$ -di-*p*-tolylpropionic acid**, and its silver salt and methyl ester (BISTRZYCKI and MAURON), A., i, 845.
- α -Phenyl- $\beta\beta$ -di-*o*-xylylpropionic acid**, and its methyl ester (BISTRZYCKI and MAURON), A., i, 845.

- p*-Phenyleneacetic-oxalacetic acid. See ω -Carboxy-*p*-tolylloxalacetic acid.
- p*-Phenyleneaceticpyruvic acid. See ω -Carboxy-*p*-tolylpyruvic acid.
- p*-Phenylenediamine, zincchloride (RED-DELIEN), A., i, 747.
- Phenylenenaphthylene-sultam (ULLMANN and GROSS), A., i, 886.
- Phenylethane, $\alpha\alpha\beta\beta$ -tetrabromo-*o*-nitro- (HELLER and TISCHNER), A., i, 37.
- 1-Phenyl-3-ethoxymethyl-5-pyrazolone-4-carboxylic acid, *p*-nitro-, ethyl ester (FARBWERKEVORM. MEISTER, LUCIUS, & BRÜNING), A., i, 340.
- Phenylethylalkylamines, *p*-hydroxy-, syntheses of (WALPOLE), T., 941; P., 87.
- δ -Phenyl- β -ethylallylmalonamic acid (MACLEOD), A., i, 846.
- β -Phenylethylamine, *p*-amino-, and its derivatives (JOHNSON and GUEST), A., i, 310.
- p*-hydroxy-, fate of, in the organism (EWINS and LAIDLAW), A., ii, 985. and its hydriodide and hydrochloride (ROSENMUND), A., i, 106, 241.
- 3:4-*d*ihydroxy-, preparation of, and its hydrobromide (BARGER and EWINS), T., 2257; P., 248; (MANNICH and JACOBSON), A., i, 168.
- 2:3:4-*tri*hydroxy-, hydrochloride (BARGER and EWINS), T., 2260; P., 248.
- o*- and *p*-nitro-, and 2:4-*d*initro-, and their derivatives (JOHNSON and GUEST), A., i, 310.
- ω -Phenylethylaminomethylisatin (EINHORN and GÖTTLER), A., i, 137.
- Phenylethylammonium methyl sulphate (JOHNSON and GUEST), A., i, 471.
- α -Phenyl- α -ethylbutyramide (BODROUX and TABOURY), A., i, 557.
- α -Phenyl- α -ethylbutyric acid (BODROUX), A., i, 672.
- α -Phenyl- α -ethylbutyronitrile (BODROUX and TABOURY), A., i, 482.
- 2-Phenyl-1-ethyl-1:2-dihydrocinchonine (FREUND and MAYER), A., i, 132.
- 3-Phenyl-6-ethyl d ihydroxy-*pyrazoquinazolinone* (MICHAELIS and LEO), A., i, 515.
- Phenylethyl d imethylamine, synthesis of, and its hydrochloride and platini-chloride (JOHNSON and GUEST), A., i, 470.
- Phenylethylethoxyethylcarbinol (REYNOLDS), A., i, 858.
- Phenylethylethylamine, *p*-hydroxy-, and its derivatives (WALPOLE), T., 948; P., 88.
- 3:4-*d*ihydroxy-, and its hydrochloride (PYMAN), T., 274.
- Phenylethylidenedeoxybenzoin (RUHE-MANN), T., 459.
- Phenylethylmethylamine, *p*-hydroxy-, and its derivatives (WALPOLE), T., 945; P., 88.
- 3:4-*d*ihydroxy-, and its salts (PYMAN), T., 272.
- p*-nitro-, and its hydrobromide (JOHNSON and GUEST), A., i, 471.
- γ -Phenyl- γ -ethylpentane (SCHREINER), A., i, 661.
- δ -Phenyl- β -ethyl- $\Delta\gamma$ -pentenoamide, (MACLEOD), A., i, 846.
- δ -Phenyl- β -ethyl- $\Delta\gamma$ -pentenoic acid, α -cyano-, and its potassium salt and ethyl ester (MACLEOD), A., i, 846.
- Phenylethylphosphinic acid, and its ethyl ester (ARBUSOFF), A., i, 803.
- β -Phenyl- α -ethylpropio-phenone, and its oxime (HALLER and BAUER), A., i, 490.
- Phenylethylpropylamine, 3:4-*d*ihydroxy- and its hydrochloride (PYMAN), T., 275.
- Phenylethylthiobenzamide (RUSSELL), T., 957.
- β -Phenylethyltrimethylammonium, 3:4-*d*ihydroxy-, chloride (BARGER and EWINS), T., 2258.
- p*-nitro-, iodide (JOHNSON and GUEST), A., i, 471.
- 1-Phenyl-2-ethylurazole, and its silver salt (BRUNEL and ACRE), A., i, 521.
- Phenylauxanthenol dimethyl ether. See 2:8-Dimethoxy-9-phenylxanthen-9-ol.
- 9-Phenylfluorene-9-carboxylic acid, *p*-hydroxy-, and lactone of *o*-hydroxy- (BISTRZYCKI and v. WEBER), A., i, 743.
- 9-Phenylfluorene, tetrabromo-3-hydroxy- (POPE and HOWARD), T., 82.
- 3-hydroxy- (POPE and HOWARD), T., 1026.
- Phenylformylaminomethylcarbinol (PICTET and GAMS), A., i, 774.
- Phenylfumardiamide, *p*-hydroxy- (PI-UTTI), A., i, 23.
- 1-Phenyl-5-furyl-3-methylpyrazoline (AUWERS and VOSS), A., i, 71.
- 1-Phenyl-3-furyl-2-methyl-5-*isop*pyrazolone, 4-nitroso-, and its hydrochloride (TORREY and ZANETTI), A., i, 893.
- 1-Phenyl-3-furyl-5-pyrazolone, hydrochloride, and *p*-bromo-, *m*-nitro-, and 4-oximino- (TORREY and ZANETTI), A., i, 893.
- 2-Phenyl-3-furyl-4-*isop*pyrazolone (TORREY and ZANETTI), A., i, 893.
- 1-Phenylgeraniol (AUSTERWEIL and COCHIN), A., i, 687.
- β -Phenylglutaconic acid and its barium and calcium salts, semi-anilide, semi-*p*-toluidide, anil and *p*-tolil (FEIST and POMME), A., i, 39.

- β -Phenylglutaric acid**, *$\alpha\beta$ -dibromo-* (FEIST and POMME), A., i, 39.
- Phenylglyceric acid**, diacetyl derivative (DIECKMANN), A., i, 384.
- Phenylglycidic acid**, normal and acid potassium salts (DIECKMANN), A., i, 384.
- Phenylglycine**, 2:4-dinitro-, and its ethyl ester (ABDERHALDEN and BLUMBERG), A., i, 371.
- Phenylglycine-*o*-carboxylic acid**, nitrile of (BADISCHE ANILIN- & SODA-FABRIK), A., i, 319.
- dibromo-*, preparation of (AKTIEN-GESELLSCHAFT FÜR ANILINFABRIKATION), A., i, 257; (BADISCHE ANILIN- & SODA-FABRIK), A., i, 382.
- 3:4-dichloro- (BADISCHE ANILIN- & SODA-FABRIK), A., i, 319.
- tetrachloro- (BADISCHE ANILIN- & SODA-FABRIK), A., i, 382.
- Phenylglycol-*p*-arsinic acid** (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 452.
- Phenylglyoxylic acid**, 3:5-dibromo-2-hydroxy-, and its quinoxaline derivative (FRIES and MOSKOPP), A., i, 332.
- Phenylguanamine**. See 1-Phenyl-1:3:5-triazine, 3:5-diamino-.
- Phenylheptadecylnitrosoamine** (LE SUEUR), T., 2437.
- Phenylcyclohexane**, 1:1-di-*p*-hydroxy- (SCHMIDLIN and LANG), A., i, 837.
- α -Phenyl- Δ^1 -cyclohexene-1-acetonitrile** (HARDING and HAWORTH), T., 497.
- β -Phenyl- Δ^7 -hexenoic acid**, β -hydroxy-, methyl ester (KOHLER and HERITAGE), A., i, 484.
- α -Phenyl- α -cyclohexylbutan- γ -one** (KOHLER and BURNLEY), A., i, 392.
- α -Phenyl- α -cyclo-hexylpentan- γ -one** (KOHLER and BURNLEY), A., i, 392.
- Phenylcyclohexylpropiphenone** (KOHLER and BURNLEY), A., i, 392.
- Phenylhistidine**, 2:4-dinitro- (ABDERHALDEN and BLUMBERG), A., i, 371.
- Phenylhydantoin**, 1-chloro-5:5-dibromo-, and 1:3-dichloro-5:5-dibromo- (BILTZ and BEHRENS), A., i, 589.
- Phenylhydrazine**, the system, water and (BLANKSMA), A., ii, 594.
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- reaction, modification of the (BÖESEKEN), A., ii, 1118.
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- Phenylhydrazine**, nitroso-, constitution of (THIELE and SIEGLITZ), A., i, 777.
- preparation, properties and copper derivative of (BAMBERGER and HAUSER), A., i, 776.
- Phenylhydrazines**, α -acylated, preparation of (WIDMANN), A., i, 777.
- α -benzoylated, preparation of (LOCKEMANN), A., i, 636.
- Phenylhydrazones** of unsaturated compounds, influence of constitution on the conversion of, into pyrazolones (AUWERS and VOSS), A., i, 70.
- mutual replacement of, and semicarbazones (KNÖPPER), A., i, 432.
- Phenylhydroxylamine**, derivatives of (ALESSANDRI), A., i, 752.
- nitroso-, ammonium salt ("cupferon"), quantitative separations by means of (BAUDISCH), A., ii, 76; (BILTZ and HÖDTKE), A., ii, 550; (HANUŠ and SOUKUP), A., ii, 899.
- Phenyl 3-hydroxy-4-methoxystyryl ketone**, 2:4:6-trihydroxy-. See Hesperitin.
- Phenyl 4-hydroxy-3-methoxystyryl ketone**, 2:4:6-trihydroxy-. See Homoeeriodictyol.
- 1-Phenyl-3-hydroxymethyl-5-pyrazolone**, *p*-nitro- (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 340.
- 3-Phenyl-2-*o*-hydroxyphenyl 3:4-dihydro-1:3-benzoxazine**, 4-cyano-, derivatives of (ROHDE and SCHÄRTTEL), A., i, 775.
- 1-Phenyl-5-*o*-hydroxyphenyl-3-ethyl and 3-propyl-pyrazoline** (AUWERS and VOSS), A., i, 71.
- Phenyl 3:4-dihydroxystyryl ketone**, 2:4:6-trihydroxy-. See Eriodictyol.
- Phenyliminoacetamide** (FORSTER and MÜLLER), T., 140.
- 4-Phenylimino-3-phenylquinazoline-2-carboxylic acid**, ethyl ester (BOGERT and GORTNER), A., i, 284.
- Phenylindoneacetic acid**, methyl ester (STOBBE and SEYDEL), A., i, 46.
- Phenyl iododichloride**, *as-* and *s-trichloro-* (WILLGERODT and WILCKE), A., i, 828.
- Phenylitaconamic acid**, *p*-hydroxy-, and its silver salt (PIUTTI, FOA, and ROSSI), A., i, 673.
- Phenylitacondiamide**, *p*-hydroxy- (PIUTTI, FOA, and ROSSI), A., i, 674.
- Phenylitaconimide**, *p*-hydroxy- (PIUTTI, FOA, and ROSSI), A., i, 673.
- β -Phenyl- α -lactic acid**, *p*-chloro- (FRIEDMANN and MAASE), A., ii, 794.
- p*-hydroxy-, behaviour of, in the liver (SCHMITZ), A., ii, 984.

- Phenyl-lactic acid**, hydroxy-, and its calcium salt, and its presence in the urine of dogs poisoned with phosphorus (KOTAKE), A., i, 384.
- Phenyl-*dl*-leucine**, 2:4-*d*-nitro-, and chloro:2:4-*d*-nitro- (ABDERHALDEN and BLUMBERG), A., i, 371.
- Phenylmaleinamic acid**, *p*-hydroxy (PIUTTI), A., i, 23.
- Phenylmaleimide**, *p*-hydroxy- (PIUTTI), A., i, 23.
- Phenylmenthylbenzamidine**, and its hydrochloride and platinichloride (COHEN and MARSHALL), T., 330.
- Phenylmenthylethylbenzamidine**, and its derivatives (COHEN and MARSHALL), T., 331.
- Phenylmethoxyacetic acid**, methyl ester (MCKENZIE and WREN), T., 484.
- Phenylmethoxymethylthiocarbamide** (JOHNSON and GUEST), A., i, 730.
- 1-Phenyl-5-*o*-methoxyphenyl-3-methylpyrazoline** (AUWERS and VOSS), A., i, 71.
- 3-Phenyl-5-*p*-methoxystyrylcyclohexan-5-ol-1-one-2-carboxylic acid**, ethyl ester (BORSCHKE), A., i, 683.
- 3-Phenyl-5-*p*-methoxystyryl- Δ^5 -cyclohexen-1-one-2-carboxylic acid**, ethyl ester (BORSCHKE), A., i, 683.
- Phenyl *o*-methoxystyryl ketone** (*o*-methoxybenzylideneacetophenone) (STOBBE and WILSON), T., 1724 ; P., 206.
- 1-Phenyl-3-methyl-5-acetonilpyrazole-4-carboxylic acid**, and its silver salt, oxime, and methyl ester (BENARY), A., i, 435.
- isoPhenylmethylacetylcyclopentene-phenazine** (RUHEMANN), T., 1444.
- Phenyl-*N*-methylalanine** (FRIEDMANN and GUTMANN), A., i, 741.
- 1-Phenyl-2-methyl-4-isoamylurazole** (NIRDLINGER, ACREE, and HEAPS), A., i, 342.
- 5-Phenyl-6-methyl-1:2:3:7:9-benzpentazole** (BÜLOW), A., i, 81.
- 6-Phenyl-2-methyl-1:3:7:9-benztetrazole**, 4-hydroxy- (BÜLOW and HAAS), A., i, 203.
- 6-Phenyl-4-methyl-1:3:7:9-benztetrazole** (BÜLOW and HAAS), A., i, 80.
- 1-Phenyl-2-methyl-3-bromomethyl-4-ethyl-5-pyrazolone**, *p*-nitro- (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 340.
- α -Phenyl- γ -methylbutan- β -one**, and its semicarbazone (SENDERENS), A., i, 489.
- Phenyl α -methylbutenyl ketone**, *di*-bromide of (REYNOLDS), A., i, 858.
- 1-Phenyl-2-methyl-4-butylurazole** (NIRDLINGER, ACREE, and HEAPS), A., i, 342.
- α -Phenyl- γ -methyl- α -isobutylvaleric acid** (BODROUX), A., i, 672.
- α -Phenyl- γ -methyl- α -isobutylvaleronitrile** (BODROUX and TABOURY), A., i, 482.
- α -Phenyl- β -methyl-*n*-butyramide** (BODROUX and TABOURY), A., i, 257.
- α -Phenyl- β -methylbutyric acid** (BODROUX and TABOURY), A., i, 557.
- α -Phenyl- β -methylbutyronitrile** (BODROUX and TABOURY), A., i, 257.
- 5-Phenyl-3-methyldihydroacridine**, 8-hydroxy- (POPE and HOWARD), T., 83.
- dl*-2-Phenyl-6-methyl-1-ethyl-1-allyl-piperidinium**, iodide and other salts (SCHOLTZ), A., i, 634.
- 1-Phenyl-3-methyl-4-ethyl-5-pyrazolone**, *p*-nitro- (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 340.
- 1-Phenyl-2-methyl-4-ethylurazole** (NIRDLINGER, ACREE, and HEAPS), A., i, 342.
- 1-Phenyl-4-methyl-2-ethylurazole** (BRUNEL and ACREE), A., i, 521.
- 9-Phenyl-2-methylfluorone** (POPE and HOWARD), T., 1026.
- d*- β -Phenyl- β -methylglycidic acid**, sodium salt (WOOTTON), T., 409 ; P., 44.
- Phenylmethylglycollic acid**. See α -Phenylpropionic acid, α -hydroxy-.
- α -Phenyl-1-methyl- Δ^3 -cyclohexene-4-acetonitrile** (HARDING and HAWORTH), T., 498.
- Phenylmethylhydrazine**, thiocyanacetate (FRERICHS and FÖRSTER), A., i, 192.
- Phenylmethylhydroxyethylamine**, ethylene oxide from the quaternary base of (RABE and HALLENSLEBEN), A., i, 841.
- 1-Phenyl-2-methyl-3-hydroxymethyl-4-ethyl-5-pyrazolone**, *p*-amino-, and *p*-nitro- (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 340.
- 1-Phenyl-3-methyl-5-hydroxymethylpyrazole** (BENARY), A., i, 435.
- 1-Phenyl-3-methyl-5-hydroxymethylpyrazole-4-carboxylic acid**, and its lactone (BENARY), A., i, 434.
- 1-Phenyl-2-methyl-3-hydroxymethyl-5-pyrazolone**, *p*-amino-, and *p*-nitro- (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 340.
- 5-Phenyl-3-methylnaphtaphenazonium** ferrichloride, and 6-amino-, and 3:6-diamino-, salts and derivatives of (ORLOFF), A., i, 783.

- as*-Phenylmethylpentamethylene-diamine (v. BRAUN), A., i, 820.
- 5-Phenyl-2-methylphenazonium, 3:6-diamino-, salts and derivatives of (SAPOSHNIKOFF and ORLOFF), A., i, 783.
- 3-Phenyl-2-methyl-4-quinazoline, 6- and 7-acetyl-amino- (BOGERT, AMEND, and CHAMBERS), A., i, 895.
- 2-Phenyl-5-methyloxazole, and its derivatives (GABRIEL), A., i, 432.
- 5-Phenyl-2-methyloxazole, and its chromate (GABRIEL), A., i, 431.
- β -Phenyl- β -methylpentane (SCHREINER), A., i, 661.
- γ -Phenyl- γ -methylpentane (SCHREINER), A., i, 661.
- α -Phenyl- δ -methylpentan- β -one, and its phenylhydrazone and semicarbazone (SENDERENS), A., i, 489.
- 6-Phenyl-2-methyl-1-propylpiperidine (SCHOLTZ), A., i, 634.
- 1-Phenyl-2-methyl-4-propylurazole (NIRDLINGER, ACREE, and HEAPS), A., i, 342.
- α -Phenyl- γ -methyl α -propylvaleramide (BODROUX and TABOURY), A., i, 557.
- α -Phenyl- γ -methyl α -isopropylvaleronitrile (BODROUX and TABOURY), A., i, 482.
- 1-Phenyl-3-methylpyrazole-2'-carboxylic acid, 4-bromo-, and its silver salt and ethyl ester (MICHAELIS and KÄDING), A., i, 517.
- 1-Phenyl-3-methylpyrazole-3'-carboxylic acid, 5-chloro- (MICHAELIS and HORN), A., i, 517.
- 1-Phenyl-5-methylpyrazole-2'-carboxylic acid, 3-chloro-, and its ethyl ester, and barium and silver salts (MICHAELIS and KÄDING), A., i, 516.
- 1-Phenyl-3-methylpyrazole-4:2'-dicarboxylic acid, 5-chloro- (MICHAELIS and LEO), A., i, 515.
- 1-Phenyl-3-methyl-5-pyrazolone-4-aldehyde, and its silver salt, phenylhydrazone, aldazine, and azomethine derivative (FELIX and FRIEDLÄNDER), A., i, 280.
- 1-Phenyl-3-methyl-5-pyrazolone-2'-carboxylic acid, and 4-bromo-, and 4-oximino- (MICHAELIS, KRUG, LEO, and ZIESEL), A., i, 514.
- 1-Phenyl-3-methyl-5-pyrazolone-3'-carboxylic acid, and its esters and 4:4-dichloro-, and 4-oximino- (MICHAELIS and HORN), A., i, 517.
- 1-Phenyl-3-methyl-5-pyrazolone-4'-carboxylic acid, and its derivatives (MICHAELIS and HORN), A., i, 517.
- 1-Phenyl-5-methyl-3-pyrazolone-2'-carboxylic acid, and its derivatives (MICHAELIS and KÄDING), A., i, 516.
- 2-Phenyl-5-methylthiazole, and its platinichloride (GABRIEL), A., i, 432.
- 5-Phenyl-2-methylthiazole, and its derivatives (GABRIEL), A., i, 431.
- α - and β -Phenyl- δ -methylthiosemicarbazide, *m*-chloro- (BUSCH and REINHARDT), A., i, 76.
- 1-Phenyl-4-methyl-1:2:3:5-tetrazole (DIMROTH and MERZBACHER), A., i, 898.
- 1-Phenyl-5-methyl-1:2:3:4-tetrazole, and *p*-nitro- (DIMROTH and DE MONTMOLLIN), A., i, 899.
- 1-Phenyl-5-methyl-1:2:3:4-tetrazole-sulphonic acid, sodium and silver salts (DIMROTH and DE MONTMOLLIN), A., i, 899.
- Phenylmethylthiocarbamylthioglycollic acid, and its derivatives (HOLMBERG and PSILANDERHELM), A., i, 834.
- 1-Phenyl-2-methylurazole, reactions of, with diazo-alkyls (NIRDLINGER and ACREE), A., i, 341; (NIRDLINGER, MARSHALL, and ACREE), A., i, 444.
- α -Phenyl- γ -methylvaleric acid (BODROUX and TABOURY), A., i, 257.
- α -Phenyl- γ -methylvaleronitrile (BODROUX and TABOURY), A., i, 257.
- Phenylmethylvinyl acetate (WOHL and BERTHOLD), A., i, 620.
- 9-Phenyl-2-methylxanthen, 6-hydroxy- (POPE and HOWARD), T., 81.
- 11-Phenyl- β -naphthaxanthen, 8-hydroxy- (POPE and HOWARD), T., 83.
- 3-Phenyl-1-naphthol (RUHEMANN), T., 461.
- Phenyl- α - and - β -naphthylamines, 2:4-di-nitro-, hydrochlorides of (BUGUET), A., ii, 826.
- Phenyl- β -naphthylamine-5:7-disulphonic acid, *p*-nitro-*o*-amino-, and its disodium salt (GESELLSCHAFT FÜR CHEMISCHE INDUSTRIE IN BASEL), A., i, 207.
- Phenyl- α -naphthyl ketoneanil, and its hydrochloride and picrate (BUSCH and FALCO), A., i, 747.
- Phenyl- α - and - β -naphthylloxamide (STIDA), A., i, 665.
- 6-Phenyl-2- α -naphthylpyridine, and its platinichloride (SCHOLTZ and MEYER), A., i, 562.
- δ -Phenyl- β -2-naphthylthiosemicarbazide, and its benzylidene derivative (BUSCH and REINHARDT), A., i, 76.
- Phenylnitromethane, spontaneous decomposition of (DIMROTH), A., i, 831.
- 3-Phenyl-1-*p*-nitro-5-methyl-1:2:4-triazole (PONZIO), A., i, 443.
- α -Phenyl- β -*p*-nitrophenylethyl- β -methylthiocarbamide (JOHNSON and GUEST), A., i, 471.

- α -Phenyl- β -*p*-nitrophenylethylthiocarbamide** (JOHNSON and GUEST), A., i, 311.
- α -Phenyl- β -2:4-dinitrophenylethylthiocarbamide** (JOHNSON and GUEST), A., i, 311.
- 1-Phenyl-5-*p*-nitrophenyl-3-methylpyrazoline** (AUWERS and VOSS), A., i, 71.
- 3-Phenyl-1-*o*-nitrophenyl-5-methyl-1:2:4-triazole** (PONZIO), A., i, 443.
- Phenyl-*p*-nitrophenyloxamide** (SUIDA), A., i, 665.
- δ -Phenyl- β -*m*-nitrophenylthiosemicarbazide** (BUSCH and REINHARDT), A., i, 76.
- 5-Phenyl-1-*p*-nitrophenyl-1:2:3:4-tetrazole** (DIMROTH and DE MONTMOLLIN), A., i, 900.
- Phenyl *m*- and *p*-nitrostyryl ketone-phenylhydrazone** (AUWERS and VOSS), A., i, 71.
- 3-Phenyl-1-*o*-nitro-*p*-tolyl-5-methyl-1:2:4-triazole** (PONZIO), A., i, 444.
- 3-Phenyl-1-*p*-nitro-*o*-tolyl-5-methyl-1:2:4-triazole** (PONZIO), A., i, 443.
- Phenyl-*o*-nitro-*p*-tolylloxamide** (SUIDA), A., i, 665.
- 6-Phenyl-2-nonylpyridine, and its platinum-chloride** (SCHOLTZ and MEYER), A., i, 562.
- Phenylloxazalone, *p*-bromo-, and oximino-*p*-bromo-, pantachromic salts of** (HANTZSCH and HEILBRON), A., i, 198.
- Phenylisooxazalone, condensation of, with ethyl mesoxalate** (MEYER), A., i, 593.
- Phenylpentadecylnitrosoamine** (LE SUEUR), T., 2439.
- α -Phenylpentan- β -one, and its semicarbazone** (SENDERENS), A., i, 489.
- Phenylphenacetilaminomethylcarbinol** (PICTET and GAMS), A., i, 774.
- s*-Phenylphenazothionium, derivatives of** (BARNETT and SMILES), T., 362; P., 47.
- Phenyl-*p*-phenetidylethylene** (BUSIGNIES), A., i, 668.
- α -Phenyl-*p*-phenetidylpropylene, and β -bromo-** (BUSIGNIES), A., i, 668.
- Phenyl ϵ -phenylamyl ether** (V. BRAUN), A., i, 844.
- Phenyl β -phenyl- α -methylbutyl ketone, and its oxime** (REYNOLDS), A., i, 858.
- Phenyl γ -phenylpropyl ether** (V. BRAUN), A., i, 845.
- Phenyl phthaliminopropyl ketone** (HILDESHEIMER), A., i, 891.
- α -Phenylpropane, γ -bromo-** (RUPE and BÜRGIN), A., i, 161.
- $\alpha\beta\gamma$ -tetrachloro-** (CLARKE), T., 898; P., 96.
- Phenylpropionic acid and its derivatives, condensation of, to naphthalene derivatives** (BUCHER), A., i, 258.
- Phenylpropionic acid, *o*-nitro-, bromination of** (HELLER and TISCHNER), A., i, 37.
- reduction of** (HELLER and TISCHNER), A., i, 64.
- α -Phenylpropionic acid, α -chloro-, optically active** (MCKENZIE and CLOUGH), T., 1021.
- α -hydroxy-, optically active, interconversion of** (MCKENZIE and CLOUGH), T., 1016; P., 85.
- conversion of, into α -chloro-** (MCKENZIE and CLOUGH), T., 2564; P., 325.
- l*- α -hydroxy-, ethyl ester** (MCKENZIE and CLOUGH), T., 2569; P., 325.
- β -Phenylpropionic acid, β -amino-, *d*- and *l*-forms, and their ethyl esters, and β -formylamino-, *dl*-, *d*-, and *l*-forms and quinine and quinidine salts of** (FISCHER, SCHEIBLER, and GROH), A., ii, 622.
- aa\beta*-trichloro-, and its methyl ester** (CLARKE), T., 893; P., 96.
- \alpha*-*o*-dicyano-, ethyl ester** (MITCHELL and THORPE), T., 2275.
- α -hydroxy-, optically active, interconversion of** (MCKENZIE and WREN), T., 1355; P., 181.
- β -hydroxy-, optically active** (MCKENZIE and HUMPHRIES), T., 123.
- dl*- α -Phenylpropionyl chloride, α -chloro-** (MCKENZIE and CLOUGH), T., 1021.
- β -Phenylpropionyl chloride, $\alpha\beta$ -dichloro-, and $\alpha\alpha\beta$ -trichloro-** (CLARKE), T., 893; P., 96.
- β -Phenylpropyl acetate** (WOHL and BERTHOLD), A., i, 620.
- α -Phenylisopropyl alcohol, quaternary ammonium base from, and its derivatives** (EMDE and RUNNE), A., i, 479.
- Phenylisopropylamine, *p*-hydroxy-, and 3:4-dihydroxy-** (MANNICH and JACOBSON), A., i, 167.
- α -Phenylpropylene α - and β -glycols, benzoyl derivatives of** (ZINCKE and ZAHN), A., i, 316.
- α -Phenylpropylmalonic acid, and its ethyl ester** (REYNOLDS), A., i, 858.
- 1-Phenyl-2-*n*-, and isopropylurazole and their silver salts** (BRUNEL and ACREE), A., i, 521.
- 1-Phenyl-4-*n*-propylurazole** (BRUNEL and ACREE), A., i, 521.
- α -Phenyl- α -*n*-propylvaleronitrile** (BODROUX and TABOURY), A., i, 482.
- 3-Phenylpyrazolisooumarazone, and 4-bromo-, and 4-chloro-** (MICHAELIS and LEO), A., i, 515.
- 3-Phenylpyrazole-1-acetic acid, 5-chloro-, and its salts and 5-chloro-4-bromo-** (MICHAELIS and SCHMIDT), A., i, 641.

- 1-Phenylpyrazole-2'-carboxylic acid, 5-chloro- (MICHAELIS and ZIESEL), A., i, 513.
- 4-Phenylpyrazoline, and its platinichloride (OLIVERI-MANDALÀ), A., i, 433.
- 1-Phenyl-5-, and-*o*-3-pyrazolonecarboxylic acids, anhydrides of (MICHAELIS), A., i, 512.
- 3-Phenylpyrazoquinazoline, 7-amino-, 7-chloro-, 4:7-dichloro-, and 7-hydroxy-, and its salts (MICHAELIS and LEO), A., i, 515.
- Phenylpyridinium, dinitro-, chloride, action of, on mercuriated amines (REITZENSTEIN and STAMM), A., i, 348.
- 4:6-dinitro-3-amino-, chloride (ZINCKE and WEISPFENNIG), A., i, 586.
- Phenylpyrocinchonimide, *p*-hydroxy- (PIUTTI and ABATI), A., i, 674.
- Phenylpyruvic acid, *p*-chloro- (FRIEDMANN and MAASE), A., ii, 795.
- p*-hydroxy-, behaviour of, in the liver (SCHMITZ), A., ii, 984.
- 3-Phenyl-4-quinazoline-2-carboxylic acid, methyl and ethyl esters (BOGERT and GORTNER), A., i, 284.
- 1-Phenylisoquinoline, and its hydrochloride and platinichloride (PICTET and GAMS), A., i, 774.
- 9-Phenylquinoxanthanyl, chloride hydrochloride, 4-bromo-, bromide hydrobromide, and 4-chloro-, chloride hydrochloride (GOMBERG and CONE), A., i, 870.
- Phenylquinoxanthanol, chloride hydrochloride, and *p*-bromo- and *p*-chloro- (GOMBERG and CONE), A., i, 56.
- N*-Phenylrhodanin, *p*-bromo- (HOLMBERG), A., i, 361.
- α -Phenylstyrylacrylic acid, methyl ester (POSNER and ROHDE), A., i, 848.
- 5-Phenyl-4-styryldihydrouracil (POSNER and ROHDE), A., i, 848.
- 3-Phenyl-5-styryl- Δ^5 -cyclohexenone, and its isomeride (BORSCHÉ), A., i, 683.
- Phenyl styryl ketone, *p*-bromo- (KÖHLER, HERITAGE, and BURNLEY), A., i, 563.
- 3-Phenyl-5- β -styrylvinylcyclohexan-5-ol-1-one-2-carboxylic acid, ethyl ester (BORSCHÉ), A., i, 684.
- 3-Phenyl-5- β -styrylvinyl- Δ^5 -cyclohexen-1-one-2-carboxylic acid, ethyl ester (BORSCHÉ), A., i, 685.
- Phenylsuccinic acid, *o*- and *p*-nitro-, *p*-acetyl-amino- (FICHTER and WALTER), A., i, 29.
- o*-Phenylsulphonebenzoic acid, 2':4'-dinitro- (MAYER), A., i, 262.
- Phenylsulphoxidoacetic acid, *o*-chloro-, (FARBENWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 379.
- Phenylsulphoxyacetic acid and its ethyl ester (PUMMERER), A., i, 468.
- α -Phenylsulphoxypropionic acid (PUMMERER), A., i, 468.
- Phenyltartramic acid, *m*-nitro-, compound with *m*-nitroaniline (TINGLE and BURKE), A., i, 21.
- p*-nitro- (TINGLE and BURKE), A., i, 22.
- Phenyltetrahydroxazalone (SCHROETER), A., i, 431.
- Phenylthiobiuret, *p*-bromo- (BOESEKEN and COUVERT), A., i, 645.
- Phenylthiocarbamic acid, allyl, menthyl and benzyl esters (ROSCHDESTVENSKY), A., i, 107.
- N*-Phenylthiodiphenylamine (BARNETT and SMILES), T., 364.
- Phenylthioglycol-*p*-arsinic acid (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 452.
- Phenylthiolacetic acid, ethyl and methyl esters (PUMMERER), A., i, 468.
- Phenylthiolbenzoic acid, *o*-4', and 5'-chloro-2'-nitro-, *o*-2':4'-dinitro- and *o*-2':4':6'-trinitro- and their methyl esters (MAYER), A., i, 261.
- 2-Phenylthiol-4-bromobenzoic acid (GOMBERG and CONE), A., i, 871.
- α -Phenylthiolpropionic acid, ethyl ester, (PUMMERER), A., i, 468.
- 9-Phenylthioxanthanol, 4-bromo- (GOMBERG and CONE), A., i, 871.
- 9-Phenylthioxanthanyl chloride and its derivatives, perchlorate, 4-bromo-, bromide and 4-chloro-, chloride (GOMBERG and CONE), A., i, 870, 871.
- Phenyl-*p*-tolylallylcarbinol (KUZMIN), A., i, 109.
- δ -Phenyl- β -*m*-tolyl- α -benzylidenethiosemicarbazide (BUSCH and REINHARDT), A., i, 76.
- α -Phenyl- α -*p*-tolylbutane- $\alpha\gamma\delta$ -triol (KUZMIN), A., i, 110.
- Phenyl-*o*- and -*m*-tolylloxamide (SUIDA), A., i, 665.
- Phenyl-*p*-tolylloxamide, *p*-iodo-, and 4:2'-dinitro- (SUIDA), A., i, 665.
- β -Phenyl- β -*p*-tolylpropionic acid, β -hydroxy-, and its salts (KUZMIN), A., i, 110.
- 3-Phenyl-1-*o*-tolylpyrazole, 5-chloro- (MICHAELIS and LEO), A., i, 515.
- 3-Phenyl-1-*o*-tolyl-5-pyrazolone (MICHAELIS and LEO), A., i, 515.
- Phenyl-*p*-tolylpyrrolinophenazine (RUHEMANN), T., 1444.
- δ -Phenyl- β -*m*-, - α -*m*-, and - β -*o*-tolylthiosemicarbazides (BUSCH and REINHARDT), A., i, 75.

- Phenyltriazene**, *o*-, *m*-, and *p*-bromo-, and the copper derivative of the latter (DIMROTH and PFISTER), A., i, 904.
- 1-Phenyl-1:3:5-triazine**, 3:5-diamino-, and its picrate (RACKMANN), A., i, 897.
- Phenyl-2:1:4-triazine-3-one**, 5:6-di-*p*-bromo-, and its sodium and acetyl derivatives (BILTZ, EDELFSEN and SEYDEL), A., i, 570.
- Phenyltriazooacetic acid**, and its ethyl ester (FORSTER and MÜLLER), T., 138; P., 4.
- 3-Phenyl-1:2:4-triazole**, 5-bromo- (MANCHOT), A., i, 442.
- 4-Phenyl-1:2:3-triazole**, and its silver salt, hydrochloride and platinichloride (OLIVERI-MANDALÀ and COPPOLA), A., i, 594.
- 4-Phenyl-1:2:3-triazole-5-carboxylic acid**, and its barium salt (OLIVERI-MANDALÀ and COPPOLA), A., i, 594.
- Phenyltriazomalonic acid**, and its ethyl ester and amide (FORSTER and MÜLLER), T., 135; P., 4.
- Phenyltriazomethylcarbamide** (FORSTER and MÜLLER), T., 1065; P., 113.
- Phenyl-1:2:4-triazylhydrazine**, and its derivatives (MANCHOT), A., i, 442.
- Phenyltridecylnitrosoamine** (LE SUEUR), T., 2440.
- Phenyl-N-trimethylalanine**, methyl ester, platini- and auri-chlorides of (ENGELAND), A., i, 843.
- 1-Phenyl-2:3:4-trimethyl-5-pyrazolone**, *p*-nitro- (FARBWERKE VORM. MEISTER, LUCIUS, and BRÜNING), A., i, 78.
- 4-Phenyltriphenylmethane** (SCHLENK, WEICKEL, and HERZENSTEIN), A., i, 237.
- 4-Phenyltriphenylmethyl**, and its peroxide (SCHLENK, WEICKEL, and HERZENSTEIN), A., i, 236.
- β-Phenylvaleronitrile** (v. BRAUN), A., i, 844.
- Phenyl-di-valine**, 2:4-dinitro- (ABDERHALDEN and BLUMBERG), A., i, 371.
- 9-Phenylxanthen**, 9-chloro-2:8-dihydroxy-, and its derivatives (v. BAeyer, AICKELIN, DIEHL, HALLENSLEBEN, and HESS), A., i, 253.
- 3-hydroxy-, and its acetate and benzoate (KAUFFMANN and PANNWITZ), A., i, 394.
- 3:6-dihydroxy- (POPE and HOWARD), T., 81.
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- $\text{C}_2\text{H}_2\text{O}_5\text{S}_2\text{Na}_2\text{Hg}$, from hydroxymercury-acetic aldehyde and sodium thiosulphate (SCHOELLER and SCHRAUTH), A., i, 460.
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- $\text{C}_3\text{H}_5\text{N}_5\text{S}_2$, from diguanide and carbon disulphide (RACKMANN), A., i, 897.
- $\text{C}_3\text{H}_6\text{OS}$, from methyl chlorothiocarbonate and magnesium methyl iodide (DELÉPINE), A., i, 612.
- $\text{C}_4\text{H}_9\text{O}_2\text{N}_7$, from triazomethylcarbimide and ammonia (FORSTER and MÜLLER), T., 1066.
- $\text{C}_4\text{H}_2\text{O}_2\text{Cl}_4\text{Hg}_3$, from mercury chloroacetylde, mercuric chloride and sodium acetate (HOFMANN and KIRMREUTHER), A., i, 17.
- $\text{C}_5\text{H}_{10}\text{O}_3$, from isovaleraldehyde and ozone (HARRIES and KOETSCHAU), A., i, 607.
- $\text{C}_5\text{H}_7\text{O}_2\text{N}$, from *d*-glutamic acid (ANDERHALDEN and KAUTZSCH), A., i, 769.
- $\text{C}_5\text{H}_{10}\text{O}_4\text{N}_6$, from triazomethylcarbimide and water (FORSTER and MÜLLER), T., 1063.
- $\text{C}_6\text{H}_2\text{Cl}_{12}$, from action of silent electric discharge on chloroform (LOSANITSCH), A., i, 1.
- $\text{C}_6\text{H}_{10}\text{ON}_6$, from 7-hydroxy-5-methyl-1:2:4:9-benzotetrazole and hydrazine (BÜLOW and HAAS), A., i, 596.
- $\text{C}_6\text{H}_{11}\text{O}_2\text{N}_4$, from nitrosodiacetone-semicarbazide (RUPE and KESSLER), A., i, 16.
- $\text{C}_6\text{H}_4\text{O}_4\text{N}_3\text{HgNa}$, from 4-imino-2:6-diketodihydropyrimidine-3-acetic acid and mercuric oxide (FARBENFABRIKEN VORM. F. BAYER & Co.), A., i, 804.
- $\text{C}_7\text{H}_{14}\text{O}_3$, from heptaldehyde, ozone, and ethyl chloride (HARRIES and KOETSCHAU), A., i, 607.
- $\text{C}_7\text{H}_7\text{O}_2\text{Cl}$, from $\alpha\gamma$ -dimethylglutaconic acid and phosphorus pentachloride (FEIST and REUTER), A., i, 10.
- $\text{C}_7\text{H}_{13}\text{O}_3\text{N}$, from α -aminoglutaric acid, aurichloride of (ENGELAND), A., i, 843.
- $\text{C}_7\text{H}_5\text{O}_5\text{SHgNa}_2$, from hydroxymercurybenzoic anhydride and sodium sulphite (SCHOELLER and SCHRAUTH), A., i, 460.
- $\text{C}_8\text{H}_{16}\text{O}_3$, from octaldehyde and ozone (HARRIES and KOETSCHAU), A., i, 607.

Substance, $C_8H_{17}N$, reduction product of γ -chloro-octylamine and its salts (GABRIEL), A., i, 229.

$C_8H_9O_2N_3$, from aniline and nitroacetonitrile (STEINKOPF, BOHRMANN, GRÜNUPP, KIRCHHOFF, JÜRGENS, and BENEDEK), A., i, 307.

$C_8H_{10}O_2N_2$, from phenyltriazomethylcarbamide and sodium carbonate (FORSTER and MÜLLER), T., 1065.

$C_8H_{10}O_3N_4$, from 4:5-diamino-2:6-diketeto-1:3-dimethylpyrimidine (FARBENFABRIKEN VORM. F. BAYER & Co.), A., i, 79.

$C_8H_{14}O_2N_2$, from acetonecyanohydrin and hydrogen chloride (ULTÉE), A., i, 15.

$C_8H_9ON_4K$, from *p*-triazobenzaldehyde and potassium cyanide (FORSTER and JUDD), T., 260.

$C_9H_{10}O_3$, from nonaldehyde and ozone (HARRIES and KOETSCHAU), A., i, 607.

$C_9H_{11}O_2$, additive compound of quinol and acetone (SCHMIDLIN and LANG), A., i, 837.

$C_9H_{12}O_3$, additive product of catechol and acetone (SCHMIDLIN and LANG), A., i, 837.

$C_9H_{12}O_7$, from the interaction of ethyl malonate, sodium ethoxide, and iodine (KOMNENOS), A., i, 542.

$C_9H_{16}O_3$, from oxidation of 1:3-dimethyl-5-methylene- Δ^3 -cyclohexene (AUWERS and PETERS), A., i, 826.

$C_9H_8O_5N_2$, from 1-chloro-2:4-dinitrobenzene and sodioacetone (REITZENSTEIN and STAMM), A., ii, 358.

$C_9H_8OS_2$, from acetophenone and carbon disulphide, and its derivatives (KELBER), A., i, 391.

$C_9H_{11}O_2N$, from coal tar (SCHULTZ and SZÉKELY), A., i, 725.

$C_9H_{11}O_2N_3$, from *o*-toluidine and nitroacetonitrile (STEINKOPF, BOHRMANN, GRÜNUPP, KIRCHHOFF, JÜRGENS, and BENEDEK), A., i, 307.

$C_9H_{17}O_4N$, from α -aminoglutaric acid, auri-chloride of (ENGELAND), A., i, 843.

$C_{10}H_{16}O$, from polymeride of crotonaldehyde (DELÉPINE), A., i, 219.
from the seeds of *Monodora grandiflora* (LEIMBACH), A., i, 186.

$C_{10}H_{15}Cl_2$, from isothujene (KONDA-ROFF and SKWORZOFF), A., i, 755.

$C_{10}H_8ON_2$, from quinoline and cyanogen bromide (v. BRAUN), A., i, 189.

Substance, $C_{10}H_8O_3N_4$, from α -methazonic anhydride (STEINKOPF, BOHRMANN, GRÜNUPP, KIRCHHOFF, JÜRGENS and BENEDEK), A., i, 308.

$C_{10}H_{11}O_3N_3$, from methyl 1-phenyl-5-triazolone-4-carboxylate and alcoholic hydrogen sulphide (DIMROTH, AICKELIN, BRAHN, FESTER, and MERCKLE), A., i, 519.

$C_{10}H_{12}O_2N_2$, from 4-keto-2-benzyl-4:5-dihydroglyoxaline and water (FINGER and ZEH), A., i, 591.

$C_{10}H_{15}O_2N_3$, from *m*-xylidine and nitroacetonitrile (STEINKOPF, BOHRMANN, GRÜNUPP, KIRCHHOFF, JÜRGENS, and BENEDEK), A., i, 307.

$C_{10}H_{15}O_2N_3$, isomeride of α -limonenehydroxylamineoxime (CUSMANO), A., i, 686.

$C_{10}H_{20}O_2N_2Cl_2$, from isomeride of α -limonenehydroxylamineoxime (CUSMANO), A., i, 686.

$C_{11}H_{14}O_6$, from ethylmethylacetonedicarboxylate (FEIST and POMME), A., i, 9.

$C_{11}H_7O_2N_3$, from pyridine and 1:3-dichloro-4:6 dinitrobenzene, salts of (ZINCKE and WEISPFENNING), A., i, 585.

$C_{11}H_{17}O_2N$, from action of sodium hydrate on cyanocarone (CLARKE and LAPWORTH), T., 15.

$C_{11}H_{20}O_2N_2$, from 4-methylamino-1:2:2:4-dimethyl-5-pyrrolidone and ethylene oxide (KOH and BUM), A., i, 137.

$C_{11}H_{11}OBrS_2$, from dimethyl ether of $C_9H_8OS_2$ (KELBER), A., i, 391.

$C_{11}H_{12}OBrS_2$, from dimethyl ether of $C_9H_8OS_2$ (KELBER), A., i, 391.

$C_{12}H_{14}$, from action of silent electric discharge on benzene and hydrogen (LOSANITSCH), A., i, 2.

$C_{12}H_8O$, from acenaphthenequinone, and its magnesium salts (KALLE & Co.), A., i, 752.

$C_{12}H_{14}O_2$, additive compound of phenol and cyclohexanone (SCHMIDLIN and LANG), A., i, 837.

$C_{12}H_{18}O_4$, additive compound of resorcinol and acetone (SCHMIDLIN and LANG), A., i, 837.

$C_{12}H_{22}O$, from lauryl chloride by the action of heat (BISTRZYCKI and LANDTWING), A., i, 87.

$C_{12}H_{22}O_2$, from polymeride of crotonaldehyde (DELÉPINE), A., i, 219.

$C_{12}H_8O_4S_2$, from oxidation of diphenylene *p*-disulphoxide (+ $2H_2O$), (HILDITCH), T., 2588.

Substance, $C_{12}H_9O_7N_3$, from betaine, $C_{12}H_7O_6N_3$, and sodium hydroxide (ZINKE), A., i, 556.

$C_{12}H_{10}O_5N_2$, from the action of nitrous acid on ethyl 1-imino-hydrindene-2-carboxylate (MITCHELL and THORPE), T., 2272.

$C_{12}H_{13}O_8N$, oxime from ethyl tetrahydroxybenzenedicarboxylate (LEUCHS and THEODORESCU), A., i, 396.

$C_{12}H_{14}O_7N_2$, oxime from the aldehydic ester, $C_{22}H_{21}O_{12}N$ (LEUCHS and THEODORESCU), A., i, 396.

$C_{12}H_{16}O_2N_2$, from the action of nitrous acid on the β -condensation product of *m*-4-xylylidine and acet-aldehyde (JONES and WHITE), T., 642.

$C_{12}H_{17}OI$, from phenoxyhexylene (DIONNEAU), A., i, 354.

$C_{12}H_{18}O_2N_4$, from hexamethylene-tetramine and resorcinol (GRISHKEWITSCH-TROCHIMOWSKY), A., i, 108.

$C_{12}H_{19}O_5N$, condensation product from acetonecyanohydrin and hydrogen chloride (ULTÉE), A., i, 15.

$C_{12}H_{21}O_{13}N$, from the nitration of cellulose (CRANE and JOYCE), A., i, 364.

$C_{12}H_9O_7N_2Na_2$, from oxidation of aniline-*p*-sulphonic acid (REITZENSTEIN), A., i, 703.

$C_{13}H_{10}O_3$, from the condensation of cyclobutan-1:3-dione in the presence of quinoline (CHICK and WILSMORE), T., 1998 ; P., 217.

$C_{13}H_{12}O_4$, from oxypeucedanin by the action of sulphuric acid (HERZOG and KROHN), A., i, 125.

$C_{13}H_{12}N_2$, from dehydracetic acid (BENARY), A., i, 435.

$C_{13}H_{14}O_6$, and its acetyl derivative and phenylmethane, from oxypeucedanin (HERZOG and KROHN), A., i, 125.

$C_{13}H_{20}O_2$, from α -cyclogeraniol (BOUVEAULT), A., i, 380.

$C_{13}H_{15}O_2N_3$, from ethyl α -cyano- α -ketobutyrate phenylhydrazone (WISLICENUS and SILBERSTEIN), A., i, 539.

$C_{13}H_{19}ON$, α - and β -isomerides from ψ cumidine and acetaldehyde (JONES and WHITE), T., 643.

$C_{13}H_{26}O_2N_2$, from 4-ethylamino-2:2:3-trimethyl-1-ethyl-5-pyrrolidone and ethylene oxide (KOHN and BUM), A., i, 137.

$C_{13}H_8O_2N_2S$, and its methyl ester (MAYER), A., i, 261.

Substance, $C_8H_{18}O_3NI_3$, from di-iodotyrosine, methyl iodide and potassium hydroxide (WHEELER and JOHNS), A., i, 114.

$C_{14}H_{12}O_6$, from extract of red clover flowers (POWER and SALWAY), T., 243 ; P., 20.

$C_{14}H_{12}O_6$, from isogalloflavin trimethyl ether (HERZIG, ERDÖS, and RUZICKA), A., i, 676.

$C_{14}H_{14}O_5$, from $\alpha\gamma$ -dimethylglutaconic acid and phosphorus pentachloride, and its anilide and methyl hydrogen ester (FEIST and REUTER), A., i, 10.

$C_{14}H_{12}ON_2$, from salicylideneaniline and potassium cyanide (ROHDE and SCHÄRTEL), A., i, 776.

$C_{14}H_{14}O_2N_2$, from 4-keto-2-benzyl-4:5-dihydroglyoxaline (FINGER and ZEH), A., i, 591.

$C_{14}H_{14}O_5N_2$, from ethyl 1-cyanocyclopropane-1-carboxylate (MITCHELL and THORPE), T., 1001.

$C_{14}H_{14}O_5Br_2$, from $C_{14}H_{14}O_5$ and bromine (FEIST and REUTER), A., i, 10.

$C_{14}H_{17}O_4N$, from *p*-ethoxyphenylmaleimide and its sodium derivative (PIUTTI), A., i, 23.

$C_{14}H_{11}O_3N_2Cl$, from nitrosobenzene and methyl 5-chloroanthranilate (FREUNDLER), A., i, 446.

$C_{14}H_{23}O_3NCl_2$, from carpine hydrochloride and chlorine (BARGER), T., 472 ; P., 53.

$C_{14}H_{15}O_2NCl_5Sb$, from di-*p*-anisylamine and antimony pentachloride (WIELAND and WECKER), A., i, 243.

$C_{15}H_{10}O_6$, from extract of red clover flowers and its acetyl derivative (POWER and SALWAY), T., 239 ; P., 20.

$C_{15}H_{14}O_4$, condensation product of catechol and acetone (SCHMIDLIN and LANG), A., i, 837.

$C_{15}H_{16}O_7$, from isogalloflavin trimethyl ether (HERZIG, ERDÖS, and RUZICKA), A., i, 677.

$C_{15}H_{18}O_3$, additive compound of phenol and acetone (SCHMIDLIN and LANG), A., i, 837.

$C_{15}H_{20}O$, from the essential oil of hyacinths (ENKLAAR), A., i, 123.

$C_{15}H_{26}O_4$, from action of sodium methoxide on $C_{14}H_{14}O_5$ (FEIST and REUTER), A., i, 10.

$C_{15}H_{24}O_4$, from rhizome of *Cimicifuga racemosa* (FINNEMORE), A., ii, 801.

$C_{15}H_{24}O_9$, additive compound of acetone and pyrogallol (SCHMIDLIN and LANG), A., i, 837.

- Substance**, $C_{15}H_{26}O$, from diethyl ketone and methyl iodide (HALLER and BAUER), A., i, 300.
- $C_{15}H_{13}O_2N$, from phenylhydroxylamine on benzoylacetaldehyde (ALESSANDRI), A., i, 753.
- $C_{15}H_{13}ONS$, from aniline and a substance from acetophenone (KELBER), A., i, 391.
- $C_{15}H_{13}ON_3S$, from 5-thion-1:4-diphenylurazole (NIRDLINGER and ACREE), A., i, 786.
- $C_{15}H_{24}O_9N_3K_3$, from *s*-trinitrobenzene and potassium propoxide (BUSCH and KÖGEL), A., i, 474.
- $C_{16}H_{29}ONCl_4Fe$, ferrichloride of the additive compound of tropine and benzyl chloride (SCHOLTZ), A., i, 97.
- $C_{16}H_{10}O_7$, from extract of red clover flowers and its acetyl derivative (POWER and SALWAY), T., 236; P., 20.
- $C_{16}H_{16}O_9$, from isogalloflavin trimethyl ether (HERZIG, ERDÖS, and RUZICKA), A., i, 676.
- $C_{16}H_{36}O$, from action of silent electric discharge on ethylene (LOSANTSCH), A., i, 1.
- $C_{16}H_8O_5S_2$, from oxidation of "thio-indigo" (DANAÏLA), A., i, 411.
- $C_{16}H_8O_4S_2$, from oxidation of "thio-indigo" (DANAÏLA), A., i, 411.
- $C_{16}H_8O_5S_2$, from oxidation of "thio-indigo" (DANAÏLA), A., i, 411.
- $C_{16}H_{10}O_7N_4$, from picryl- α -naphthylamine and silver oxide (BUSCH and KÖGEL), A., i, 473.
- $C_{16}H_{11}O_7N_3$, from 3:5-dinitro-4-hydroxybenzoic acid and quinoline (MORGENSTERN), A., i, 483.
- $C_{16}H_{13}O_3N$, from safrole and nitrosobenzene, 2 isomerides (ANGELI, ALESSANDRI, and PEGNA), A., i, 552.
- $C_{16}H_{15}O_3N$, from chrysophanic acid methyl ether and ammonia ($+\frac{1}{2}H_2O$) (OESTERLE and JOHANN), A., i, 860.
- $C_{16}H_{14}O_6N_4$, from dinitrophenyldipyridinium dichloride and alkali, and its salts (ZINCKE and WEISPFENNING), A., i, 585.
- $C_{16}H_{21}O_2N$, from dimethylketen and benzylidenemethylamine (STAUDINGER, KLEVER, and KOBER), A., i, 588.
- $C_{16}H_{21}O_8P$, from picrotin and phosphorus pentachloride (HORRMANN), A., i, 577.
- $C_{16}H_{14}ON_2S$, condensation product of 3-oxy-1-thionaphthen with *p*-nitrosodimethylaniline (BADISCHE ANILIN- & SODA-FABRIK), A., i, 60.
- Substance**, $C_{16}H_{12}O_6N_2S_2Na_2$, from 1-naphthol-4-sulphonic acid, phenylhydrazine and sodium hydrogen sulphite (BUCHERER and SONNENBURG), A., i, 145.
- $C_{17}H_{16}N_2$, from interaction of magnesium phenyl bromide and 3:3-dimethylindolenine-2-carboxylonitrile, and its oxime and *p*-nitrophenylhydrazone (PLANCHER and GIUMELLI), A., i, 63.
- $C_{17}H_{12}O_2N_2$, from 3:5-dinitro-4-hydroxybenzoic acid and naphthalene (MORGENSTERN), A., i, 482.
- $C_{17}H_{14}O_6Br_2$, from the reduction of β -bromocarmine (ROHDE and DORFMÜLLER), A., i, 492.
- $C_{17}H_{23}O_3N_3$, from *d*-leucyl-*l*-tryptophan (FISCHER), A., i, 22.
- $C_{17}H_{26}O_2Cl_8$, from fatty acids in cod liver oil (HEIDUSCHKA and RHEINBERGER), A., i, 297.
- $C_{17}H_{11}O_6N_4Cl$, from picryl chloride and methyl- α -naphthylamine (BUSCH and KÖGEL), A., i, 473.
- $C_{17}H_{14}O_4N_2S_2$, from immidial-indone (FRANK), T., 2045; P., 218.
- $C_{17}H_{15}N_2Cl_3Hg_2$, from dinitrophenylpyridinium chloride and *p*-aminophenyl mercuriacetate (REITZENSTEIN and STAMM), A., i, 348.
- $C_{17}H_{26}O_2Cl_4I_4$, from fatty acids of cod liver oil (HEIDUSCHKA and RHEINBERGER), A., i, 297.
- $C_{17}H_{27}O_2BrMg$, from action of magnesium on *p*-tolyl ethyl ketone and allyl bromide (GRISHKEWITSCH-TROCHIMOWSKY), A., i, 109.
- $C_{17}H_{16}ON_2Cl_2Hg_2$, from dinitrophenylpyridinium chloride and *p*-aminophenyl mercuriacetate (REITZENSTEIN and STAMM), A., i, 348.
- $C_{18}H_{12}O_8$, from kermesic acid and hydriodic acid (DIMROTH), A., i, 488.
- $C_{18}H_{16}O_6$, from 3-hydroxymethylfluorone (KEHRMANN and JONES), A., i, 409.
- $C_{18}H_{26}O_9$, from isogalloflavin trimethyl ether (HERZIG, ERDÖS, and RUZICKA), A., i, 676.
- $C_{18}H_{11}O_7N$, from ester, $C_{20}H_{13}O_6N$ (WILLGERODT and MAFFEZZOLI), A., i, 679.
- $C_{18}H_{12}O_2S_3$, from $C_8H_8OS_2$ and ammonium persulphate (KELBER), A., i, 391.
- $C_{18}H_{16}O_2N_2$, from isobenzylglyoxalidone and sodium hydroxide (FINGER and ZEH), A., i, 591.
- $C_{18}H_{16}O_3N$, from ethyleugenol and nitrosobenzene (ANGELI, ALESSANDRI, and PEGNA), A., i, 553.

Substance, $C_{18}H_{24}O_4N_4$, from hexamethylenetetramine and catechol (GRISHKEWITSCH-TROCHIMOWSKY), A., i, 108.

$C_{19}H_{12}O_4$, from 3-phenylpyrazoisocoumarazone and resorcinol (MICHAELIS and LEO), A., i, 516.

$C_{19}H_{14}O_5$, from 3-methylpyrazoisocoumarazone and resorcinol (MICHAELIS and LEO), A., i, 516.

$C_{19}H_{28}O_{10}$, from biliary acids (PREGL), A., i, 321.

$C_{19}H_{14}O_7N_2$, from 3:5-dinitro-4-hydroxybenzoic acid and acenaphthene (MORGENSTERN), A., i, 482.

$C_{18}H_{16}O_2Cl_2$, from 2:5-dihydroxytriphenylcarbinol (V. BAEYER, ACKELIN, DIEHL, HALLENSLEBEN, and HESS), A., i, 249.

$C_{19}H_{18}O_2N_2$, from *p*-benzoquinone and diaminodiphenylmethane (SIEGMUND), A., 749.

$C_{19}H_{19}N_2ClHg$, from 3-mercury-*p*-toluidine and dinitrophenylpyridinium chloride (REITZENSTEIN and STAMM), A., i, 348.

$C_{20}H_{22}O_5$, from methyl chloroformate and ostruthin (HERZOG and KROHN), A., i, 125.

$C_{26}H_{31}O_8$, from *Adenium Hongkel* (PERROT and LEPRINCE), A., ii, 151.

$C_{20}H_{15}O_4N_3$, azo-dye from *o*-aminophthalanil (RUPE and THIESS), A., i, 73.

$C_{20}H_{14}N_2S_2$, from diazotriphenylpyrrole (ANGELICO and LABISI), A., i, 445.

$C_{20}H_{21}O_3Cl_3$, 2 isomerides from $\beta\beta$ -dichloro- $\alpha\gamma$ -dianisylidenep propane and methyl alcohol (STRAUS, LUTZ, and HÜSSY), A., i, 564.

$C_{20}H_{22}O_5N_3$, from 1:3-dioximino-2-cyclohexanone with sodium ethoxide and benzoyl chloride (BORSCHKE), A., i, 178.

$C_{20}H_{12}O_8N_4S_4$, from 3-cyano-2:4-diketo-5-benzylidenetetrahydrothiophen and barium hydroxide (BENARY), A., i, 580.

$C_{20}H_{19}O_4N_7S + 2H_2O$, from acetylguanamine acetate and orange II (RADLBERGER), A., i, 761.

$C_{20}H_{25}O_3NS$, from ψ -codeinone and ethyl mercaptan (PSCHORR and KRECH), A., i, 423.

$C_{20}H_{26}O_3NI$, from methyl iodide and a betaine from β -ethylthiocodide (PSCHORR and KRECH), A., i, 423.

$C_{21}H_{27}O_2NS$, betaine of substance from β -ethylthiocodide (PSCHORR and KRECH), A., i, 422.

Substance, $C_{21}H_{29}O_2NS$, from β -ethylthiocodide (PSCHORR and KRECH), A., i, 422.

$C_{21}H_{29}O_2NS_2$, from β -methylthiocodide and ethyl mercaptan (PSCHORR and KRECH), A., i, 422.

$C_{21}H_{12}O_{19}S_3AsNa_3$, from trisodiumarsenate and sulphosalicylic acid (BARTHE), A., i, 262.

$C_{21}H_{21}O_4N_2ClHg_2$, from dinitrophenylpyridinium chloride and *p*-aminophenyl mercuriacetate (REITZENSTEIN and STAMM), A., i, 348.

$C_{21}H_{26}O_2NIS$, from methyl iodide and β -ethylthiocodide, and its derivatives (PSCHORR and KRECH), A., i, 422.

$C_{22}H_{18}O_5$, from the condensation of phenanthraquinone with ethylacetoacetate (RICHARDS), T., 1460; P., 195.

$C_{22}H_{26}O_6$, from *p*-benzoquinone and methyl *p*-aminobenzoate (SIEGMUND), A., i, 749.

$C_{22}H_{16}O_4N$, from ω -amino-*op*-dihydroxyacetophenone (TUTIN), T., 2515.

$C_{22}H_{25}O_2N$, from dimethylketen and benzylidenbenzylamine (STAUDINGER, KLEVER, and KOBER), A., i, 588.

$C_{22}H_{25}O_3N$, from oxidation of β -isobutyrylbenzylamino- β -phenyl- α -dimethylpropionic acid (STAUDINGER, KLEVER, and KOBER), A., i, 587.

$C_{22}H_{31}O_{18}N$, acetyl derivative of the product from nitration of cellulose (CRANE and JOYCE), A., i, 364.

$C_{22}H_{19}O_2NSNa$, from 1-amino-2-naphthol-4-sulphonic acid, phenylhydrazine and sodium hydrogen sulphite (BUCHERER and SONNENBURG), A., i, 145.

$C_{23}H_{20}O_{10}$, and its acetyl derivative, from the potassium derivative of rhein (OESTERLE and RIAT), A., i, 126.

$C_{23}H_{14}O_7N_2$, from 3:5-dinitro-4-hydroxybenzoic acid and pyrene (MORGENSTERN), A., i, 482.

$C_{23}H_{19}O_2NS$, phenacyl derivative of compound of $C_9H_5OS_2$ and aniline (KELBER), A., i, 391.

$C_{23}H_{27}O_2N_2Br$, from brucine (MOSSLER), A., i, 275.

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- Thio-p-toliminomethyl ether** methyl hydrogen sulphate (MATSUI), A., i, 695.
- Thiourazoles**, isomeric (BUSCH, REINHARDT, and LIMPACH), A., i, 142.
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- Thorium** chloride, compounds of, with ammonia (CHAUVENET), A., ii, 872.
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- Thorium-X**, new β -radiation from (HAHN and MEITNER), A., ii, 566.
- dl*-Threo- $\alpha\gamma\delta$ -trihydroxyvaleric acid** phenylhydrazide of (NEF), A., i, 713.
- d*- and *l*-Threo- $\alpha\gamma\delta$ -trihydroxyvaleric acids** and their salts and derivatives (NEF), A., i, 713.
- d*-Threo- $\alpha\delta$ -dihydroxyvalerolactone** (NEF), A., i, 713.
- Thrombin** (HOWELL), A., i, 793.
- α -Thujadicarboxylic acid**, esters and amide of, and ammonium salt of the latter (THOMSON), T., 1512; P., 178.
- Thujene**, derivatives of (KONDAROFF and SKWORZOFF), A., i, 754.
- Thujone**. See Tanacetone.
- Thulium** (JAMES), A., ii, 412.
- Thymine**, preparation of (WHEELER, MCFARLAND, and STOREY), A., i, 138.
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- Thymol**, bactericidal value of (SCHMIDT), A., ii, 882.
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- p*-Thymol** (*3-hydroxy-1-methyl-4-isopropylbenzene*) (GUILLAUMIN), A., i, 375.
- Thymomenthone**, dibromo- (BRUNEL), A., i, 479.
- Thymomenthonecarboxylic acid** (GARDNER, PERKIN, and WATSON), P., 137.
- o*-Thymotic acid** and its silver and sodium salts, methyl and ethyl esters, and two isomeric thymotides (SPALLINO and PROVENZAL), A., i, 38.
- o*-Thymyloxyacetic acid** (BÉHAL and TIEFFENAU), A., i, 375.
- p*-Thymyl-3-oxyacetic acid** (GUILLAUMIN), A., i, 376.
- Thyreoglobulin**, iodo- (OSWALD), A., i, 793.
- Thyroid**, possible relationship between the pituitary and the (SIMPSON and HUNTER), A., ii, 428.
- Thyroid**, internal secretion of the (CARLSON and WOELFEL), A., ii, 526.
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- Thyroidectomy**, and the ammonia-destroying power of the liver (CARLSON and JACOBSON), A., ii, 324.
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- Tiglic aldehyde**, action of organo-magnesium compounds on, and the optic behaviour of the products (ABELMANN), A., i, 454.
- Tin**, behaviour of lithium towards (MASING and TAMMANN), A., ii, 610.
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- Tin alloys** with antimony, analysis of (McCAY), A., ii, 1003.
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- Stannous salts**, behaviour of iron towards solutions of (THIEL and KELLER), A., ii, 962.
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- Tin tetra-*p*-tolyl** (PFEIFFER, LEHNHARDT, LUFTESTEINER, PRADE, SCHNURMANN, and TRUSKIER), A., i, 724.
- Tin**, estimation of, in white metal by electrolysis (SCHÜRMANN), A., ii, 1115.
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- Tin**, arsenic and antimony, estimation of, by means of potassium ferricyanide (PALMER), A., ii, 547.
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- Tin group**, separation of metals of the (CAVEN), P., 176.
- Tissue**, muscular, of frogs, influence of different substances on the gaseous exchange of the surviving (THUNBERG), A., ii, 54, 523.
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- Tissues**, surviving, formation of carbon dioxide in (HANSEN), A., ii, 55.
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- Titanic acid**. See under Titanium.
- Titanium** (WEISS and KAISER ; HUNTER), A., ii, 302.
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- Titanium** minerals, zirconia and erbia from (HOFMANN), A., ii, 1073.
- Titanic acid**, solution and precipitation of (BORNEMANN and SCHIRMEISTER), A., ii, 1073.
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- Toads**, immunity of, to their own poison (FÜHNER), A., ii, 1096.
- Tobacco** culture, production of nicotine in (SCHLESING), A., ii, 743.
- Tobacco smoke**, cyanogen compounds in (TÓTH), A., ii, 443.
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- (*Tolyl compounds, Me=1.*)
- Tolane**, 4:4'-dichloro-, and its di- and tetra-chlorides, and 3:4:3':4'-tetra-chloro-, tetrachloride (KENNER and WITHAM), T., 1960 ; P., 219.
- Tolualdehyde**, trimeric (MASCARELLI and RUSSI), A., i, 746.
- m*-**Tolualdehyde**, nitro- ω -chloroacetyl-amino- (EINHORN and GÖTTLER), A., i, 113.
- p*-**Tolualdehyde**, action of light on, in presence of iodine (MASCARELLI and RUSSI), A., i, 746.
nitro- ω -chloroacetyl-amino- (EINHORN and GÖTTLER), A., i, 113.
- p*-**Tolualdehyde-*p*-bromophenylhydrazone** (GRAZIANI), A., i, 778.
- p*-**Tolualdehyde- β -naphthylhydrazone** (PADOA and GRAZIANI), A., i, 510.
- p*-**Tolualdehyde-phenyl-*o*- and *m*-tolylhydrazones** (PADOA and GRAZIANI), A., i, 135.
- p*-**Tolualdehyde-1:2:4-, 1:3:5-, 1:3:4- and 1:4:5-, xylaldehydrazone** (PADOA and GRAZIANI), A., i, 510, 778.
- m*-**Toluamide**, 6-nitro- (WHEELER and HOFFMAN), A., i, 666.
- Tolntribromoresazine** (HEIDUSCHKA and SCHELLER), A., i, 397.
- Toluene**, vapour pressure of (BARKER), A., ii, 185.
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- Toluene**, *o*-bromo- ω -nitro- (WISLICENUS and FISCHER), A., i, 621.
3-iodo-2-nitro-, 2:5-di-iodo-6-nitro-, and 2:3:6-tri-iodo- (WHEELER and BRAUTLECHT), A., i, 663.
- Toluene**, 5-iodo-3-nitro-, 4:5-di-iodo-3-nitro-, and 3:4:6-tri-iodo- (WHEELER and SCHOLES), A., i, 663.
2:3-, 2:5-, and 3:5-di-iodo-, 3:4:5-tri-iodo-, and 2-iodo-3-nitro- (WHEELER and LIDDLE), A., i, 18.
2:3:4:6-tetraiodo- (WHEELER and HOFFMAN), A., i, 663.
o-nitro-, formation of, from 2:4-dinitrotoluene (KOHN), A., i, 660.
trinitro-, additive compounds of, with arylamines (SUDBOROUGH and BEARD), T., 773 ; P., 71.
- Toluenes**, nitro-, xylenes and toluidines freezing mixtures of (FISCHER), A., i, 309.
- p*-**Tolueneazocethyldrazide** (DIMROTH and DE MONTMOLLIN), A., i, 899.
- p*-**Tolueneazodiacetylhydrazine** (DIMROTH and DE MONTMOLLIN), A., i, 899.
- 4-Tolueneazo-1:3-diphenyl-5-pyrazolone-2'-carboxylic acid** (MICHAELIS and LEO), A., i, 516.

(Tolyl compounds, $Me=1$.)

- 3-*o*-Toluenaeazoglutacononic acid**, ethyl ester, *o*-tolylhydrazone (HENRICH, REICHENBURG, NACHTIGALL, THOMAS, and BAUM), A., i, 901.
- 3-*p*-Toluenaeazoglutacononic acid**, ethyl ester, *p*-tolylhydrazone (HENRICH, REICHENBURG, NACHTIGALL, THOMAS, and BAUM), A., i, 901.
- 5-*p*-Toluenaeazo-8-hydroxyquinoline**, and its derivatives (FOX), T., 1341.
- 4-Toluenaeazo-5-hydroxytriazole-1-acetylbenzylidenehydrazide** (CURTIUS and CALLAN), A., i, 788.
- 4-Toluenaeazo-5-hydroxytriazole-1-acetylglycinebenzylidenehydrazide** (CURTIUS and CALLAN), A., i, 788.
- p*-Toluenaeazo- β -naphthylamine** (CHARRIER), A., i, 287.
- 5-*o*-Toluenaeazo-1-*o*-tolyl-6-pyridazone-3-carboxylic acid**, ethyl ester (HENRICH, REICHENBURG, NACHTIGALL, THOMAS, and BAUM), A., i, 901.
- 1- and 2-*p*-Toluenesulphonaminanthraquinones** (ULLMANN), A., i, 751.
- p*-Toluenesulphonic acid**, 2:5-diphenylphenyl ester of (FICHTER and WALTER), A., i, 29.
- p*-Toluenesulphonmethyl-*p*-nitroanilide** (AKTIEN-GESELLSCHAFT FÜR ANILIN-FABRIKATION), A., i, 727.
- Toluene- ω -sulphonyl-*p*-aminobenzene-azo- β -naphthol** (MORGAN and PICKARD), T., 57.
- p*-Toluenesulphonylaziminotoluene** (ULLMANN and GROSS), A., i, 886.
- p*-Toluenesulphonyl bromide**, and 3-bromo-, chloride (ZINCKE and FROHNEBERG), A., i, 315.
- p*-Toluenesulphonyl chloride** 2-nitro-, electrolytic reduction of (FICHTER and BERNOULLI), A., i, 20.
- p*-Toluenesulphonylmethyl-3-amino-*p*-toluidide** (ULLMANN and GROSS), A., i, 886.
- p*-Toluenesulphonylmethyl-3-nitro-*p*-toluidide** (ULLMANN and GROSS), A., i, 886.
- p*-Toluenesulphonylmethyl-3:5-*d*-nitro-*p*-toluidide** (ULLMANN and GROSS), A., i, 886.
- p*-Toluenesulphonylmethyl-*p*-phenylenediamine** (AKTIEN-GESELLSCHAFT FÜR ANILIN-FABRIKATION), A., i, 727.
- p*-Toluenesulphonylnaphthastyril** (ULLMANN and CASSIRER), A., i, 201.
- Toluene- ω -sulphonyl-*p*-nitroaniline** (MORGAN and PICKARD), T., 56.
- p*-Toluenesulphonyl-3-nitro-*p*-toluidide** (ULLMANN and GROSS), A., i, 886.

(Tolyl compounds, $Me=1$.)

- p*-Toluenesulphonyl-3:5-*d*-nitro-*p*-toluidide**, nitro- (ULLMANN and GROSS), A., i, 886.
- Toluene- ω -sulphonyl-*p*-phenylenediamine** (MORGAN and PICKARD), T., 56.
- Toluene- ω -sulphonyl-*p*-phenylenediazimidide** (MORGAN and PICKARD), T., 57.
- p*-Toluenesulphonyltolylene-3:4-diamine**, and its hydrochloride (ULLMANN and GROSS), A., i, 886.
- o*-, *m*-, and *p*-Toluic acid**, menthyl esters of (COHEN and DUDLEY), T., 1749.
- m*-Toluic acid**, 5-iodo-4-amino, and its ethyl ester (WHEELER and HOFFMAN), A., i, 666.
- p*-Toluic acid**, *p*-tolyl ester of (MASCARELLI and RUSSI), A., i, 746.
- o*- and *m*-Toluidine**, absorption spectra of (PURVIS), T., 1551.
- o*-Toluidine**, 5-iodo-6-nitro-, and 3:6-diiodo- (WHEELER and BRAUTLECHT), A., i, 663.
- m*-Toluidine**, 2-iodo-, and its acetyl derivative (WHEELER and LIDDLE), A., i, 18.
- 4-iodo-, phenylthiocarbamide derivative, 5-iodo-, and 4:5-*di*-iodo-, and their acetyl derivatives** (WHEELER and SCHOLES), A., i, 663.
- 2:4-*di*-iodo-, and 2:4:6-*tri*-iodo-, and their derivatives** (WHEELER and HOFFMAN), A., i, 662.
- 2:6-*di*-iodo-, and its hydrochloride** (WHEELER and BRAUTLECHT), A., i, 663.
- p*-Toluidine**, and its condensation product with acetaldehyde, absorption spectra of (PURVIS), T., 644 ; P., 56.
- 3-iodo-, and its hydrochloride, oxalate, and acetyl and benzoyl derivatives** (WHEELER and LIDDLE), A., i, 17.
- 5-iodo-3-nitro-** (WHEELER and SCHOLES), A., i, 663.
- 3:5-*di*-iodo-, acetyl derivative of** (WHEELER and LIDDLE), A., i, 18.
- Toluidines**, xylenes and nitrotoluenes freezing mixtures of (FISCHER), A., i, 309.
- o*-Toluidine-5-sulphonic acid**, 3-chloro- (BADISCHE ANILIN- & SODA-FABRIK), A., i, 271.
- Toluidinobenzoic acid**, 3:5-*d*-nitro- (ZINCKE), A., i, 556.
- 7-*p*-Toluidino-3:6-dimethylphenoxazine**, and its derivatives (BÖRNSTEIN), A., i, 779.
- 2-*o*-(or *m*-)Toluoylebenzoic acid**, 3:6-dichloro-3'-(or 2')-hydroxy-, and 3:6-dichloro-5'-(or 6')-hydroxy-, its sodium salt and its monobromo-derivative (WALSH and WEIZMANN), T., 689.

(*Tolyl compounds, Me=1.*)

- 2'-Tolucyldiphenyl sulphide**, 2,4-dinitro- (MAYER), A., i, 262.
- Toluquinolbenzein** (2:7-dihydroxy-3:6-dimethyl-9-phenylxanthen-9-ol), and its derivatives (KEHRMANN and SILZER), A., i, 408.
- Toluquinolphthalein**, and its derivatives (KEHRMANN and SILZER), A., i, 407.
- o-Toluquinoneimine**, amino-, nitrate (PICCARD), A., i, 66.
- Toluresazine** (HEIDUSCHKA and SCHELLER), A., i, 397.
- m-Tolyl ether**, di- and tetrabromo- (COOK), A., i, 731.
- p-Tolyl methyl ether**, 6-chloro-3-amino-, and its acetyl derivative and 3:6-dichloro- (DE VRIES), A., i, 29.
- sulphide dibromide and sulphoxide**, 2-bromo-, sulphide, sulphide dibromide, sulphoxide and sulphone, 2:5-dibromo-, sulphide, sulphide dibromide, and sulphoxide (ZINCKE and FROHNEBERG), A., i, 315.
- p-Tolyl disulphide**, 2-amino-, and its sulphate and acetyl derivative (FICHTER and BERNOULLI), A., i, 21.
- trisulphide** (HOLMBERG), A., i, 165.
- m-Tolylacetoneitrile**, p-amino-, and its salts, p-hydroxy-, and p-nitro- (BARGER and EWINS), T., 2256.
- 4-p-Tolylamino-1-anthrapyrimidone** (FARBENFABRIKEN VORM. F. BAYER & CO.), A., i, 445.
- Tolyl-5-arsenious oxide**, 2-amino- (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 84.
- Tolyl-5-arsinic acid**, 4-amino- (BENDA), A., i, 148.
- 2- and 3-Tolylarsinic acids**, 4-amino-, and sodium salt of the latter (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 531.
- p-Tolylazoimide** (DIMROTH and PFISTER), A., i, 904.
- p-Tolylbenzylsulphone** (v. MEYER), A., i, 316.
- p-Tolyl butyl and isobutyl ketones** (WILLGERODT and HAMBRECHT), A., i, 118.
- p-Tolyl-butyric and isobutyric acids**, and their amides (WILLGERODT and HAMBRECHT), A., i, 118.
- p-Tolylcarbamide**, 3-iodo- (WHEELER and LIDDLE), A., i, 17.
- p-Tolyl trichloromethyl sulphide**, and 2-bromo- (ZINCKE and FROHNEBERG), A., i, 315.
- o-Tolyl-1:3-dichlorophenyliodonium hydroxide** and its salts (WILLGERODT and BÖLLERT), A., i, 828.

(*Tolyl compounds, Me=1.*)

- p-Tolyldimethylcarbinol** (SMIRNOFF), A., i, 104.
- Tolyldimethylcarbinol**, o-hydroxy- (GUILLAUMIN), A., i, 477.
- 1-o-Tolyl-3:4-dimethylpyrazole**, 5-chloro- and its methiodide (MICHAELIS and LEO), A., i, 514.
- 1-o-Tolyl-3:4-dimethyl-5-pyrazolone** (MICHAELIS and LEO), A., i, 514.
- Tolylenediamine poisoning** (JOANNOVICS and PICK), A., ii, 435.
- p-Tolyethylallylcarbinol** (GRISHKEWITSCH-TROCHIMOWSKY), A., i, 108.
- β-m-Tolyethylamine**, 4-hydroxy-, and its derivatives (BARGER and EWINS), T., 2257; P., 248.
- d- and l-α-p-Tolyethylamine** (STENBERG), A., i, 241.
- p-Tolyethylsulphone** (v. MEYER), A., i, 316.
- 9-m-Tolylfluorene**, p-hydroxy-, and its acetate (BISTRZYCKI and v. WEBER), A., i, 743.
- 9-m-Tolylfluorene-9-carboxylic acid**, p-hydroxy-, and lactones of o- and 6'-hydroxy- (BISTRZYCKI and v. WEBER), A., i, 743.
- 9-p(?)-Tolylfluorene-9-carboxylic acid**, o-hydroxy-, lactone of (BISTRZYCKI and v. WEBER), A., i, 743.
- o-Tolylglycine-5-arsinic acid** (FARBWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 84.
- o-Tolylhydrazinomethylenemalononic acid**, ethyl ester (MICHAELIS and ZIESEL), A., i, 513.
- p-Tolylhydrazonemesoxalylbishydrazonetoluene-p-azoacetoacetic acid**, ethyl ester (BÜLOW and BOZENHARDT), A., i, 206.
- p-Tolyldeneanthranilic acid** (WOLF), A., i, 735.
- p-Tolylimino-p-chlorophenyl-p-chlorostyrylmethane**, isomeric forms of, and their picrates and hydrochlorides (STRAUS and ACKERMANN), A., i, 242.
- o-, m-, and p-Tolylmenthylbenzamidines**, and their hydrochlorides and platini-chlorides (COHEN and MARSHALL), T., 331.
- Tolyl-4-mercaptan sulphate**, 2-amino- (FICHTER and BERNOULLI), A., i, 21.
- s-p-Tolylmethoxymethylthiocarbamide** (JOHNSON and GUEST), A., i, 730.
- 1-o-Tolyl-3-methylpyrazole**, 4-bromo- (MICHAELIS and KÄDING), A., i, 516.
- p-Tolylmethylsulphone** (v. MEYER), A., i, 316.
- 1-p-Tolyl-5-methyl-1:2:3:4-tetrazole** (DIMROTH and DE MONTMOLLIN), A., i, 899.

(*Tolyl compounds, Me=1.*)

- 2-*p*-Tolynaphthatriazole** (CHARRIER), A., i, 287.
- 3-*p*-Tolyl- β -naphthaisotriazoles** (MORGAN and BRAMLEY), P., 151.
- p*-Tolyl- β -naphthylamine, thio-** (ACKERMANN), A., i, 728.
- p*-Tolyl-1:2-naphthylenediazoimines.** See 3-*p*-Tolyl- β -naphthaisotriazoles.
- p*-Tolyl- α -naphthylmethylcarbinol** (SCHURAKOVSKY), A., i, 169.
- o*- and *p*-Tolylxypropane, γ -chloro- β -hydroxy-, and their phenylurethanes** (BOYD and MARLE), T., 1790; P., 208.
- p*-Tolylpropyl- and *iso*-propylcarbinols** (GRISHKEWITSCH-TROCHIMOWSKY), A., i, 109.
- p*-Tolyl propyl ketone, and its phenylhydrazone** (WILGERODT and HAMBRECHT), A., i, 118.
- 1-*o*-Tolylpyrazole, 5-chloro-** (MICHAELIS and ZIESEL), A., i, 513.
- 1-*o*-Tolyl-4-pyrazolone** (MICHAELIS and ZIESEL), A., i, 513.
- p*-Tolylpyruvic acid, $\omega\beta$ -dicyano-, ethyl ester and derivatives** (WISLICENUS and PENNDORF), A., i, 560.
- p*-Tolylquinoxanthanol, chloride hydrochloride** (GOMBERG and CONE), A., i, 56.
- p*-Tolylsulphone-*p*-tolylsulphoxyethane** (FROMM and RAIZISS), A., i, 554.
- 9-*p*-Tolylsulphonylcarbazole** (CASSELLA & Co.), A., i, 775.
- o*-Tolylsulphoxidoacetic acid, *p*-chloro-** (FARBENWERKE VORM. MEISTER, LUCIUS, & BRÜNING), A., i, 379.
- 1-*p*-Tolyl-1:2:3:4-tetrazole** (DIMROTH and DE MONTMOLLIN), A., i, 898.
- δ -*o*- and *p*-Tolyl- β -*m*- and α -*m*-tolylthiosemicarbazides, and their α -nitrobenzylidene derivative** (BUSCH and REINHARDT), A., i, 76.
- p*-Tolylvaleric and *isovaleric* acids, and their amides** (WILGERODT and HAMBRECHT), A., i, 118.
- p*-Tolylxanthanol, and its chloride and peroxide** (GOMBERG and CONE), A., i, 56.
- p*-Tolyl-*p*-xylyloxamide** (SUIDA), A., i, 665.
- Tomatoes, colouring matter of** (WILLSTÄTTER and ESCHER), A., i, 330.
- Tortoise, gas exchange in the lungs of** (KROGH), A., ii, 512.
heart. See under Heart.
liver. See under Liver.
- Toxic action of dissolved substances, kinetics of** (PAUL, BIRSTEIN, and REUSS), A., ii, 1098, 1099.
- Toxicity of salts towards green leaves** (MAQUENNE and DEMOUSSY), A., ii, 801.
- Toxins and anti-toxins, effect of, on surface-tension** (BERTOLINI), A., ii, 987.
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(*o*-Xylene, *Me*:*Me*=1:2; *m*-xylene, *Me*:*Me*=1:3; *p*-xylene, *Me*:*Me*=1:4.)

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